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A contribution to the knowledge of Dermestidae
(Coleoptera) from Guatemala

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A contribution to the knowledge of Dermestidae (Coleoptera) from Guatemala

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Abstract. The following five species of Dermestidae (Coleoptera) are recorded for the first time from Guatemala: *Attagenus fasciatus* (Thunberg), *Dermestes (Dermestinus) caninus caninus* Germar, *Orphinus fulvipes* (Guérin-Méneville), *Trogoderma simplex* Jayne and *Thorictodes heydeni* Reitter. The species are recorded from the Guatemalan departments of Petén, Izabal and Zacapa.

Key words. New country record, faunistics, Petén, Izabal, Zacapa.

Introduction

The family Dermestidae (Coleoptera) currently contains approximately 1680 valid species worldwide (Háva 2015, 2019). However, the dermestid fauna of Guatemala is poorly known. Most dermestid specimens collected in Guatemala belong to the cosmopolitan species *Trogoderma serraticorne* Fabricius (Fig. 1), and a total of only 34 species have been recorded from the country (Sharp 1902; Blackwelder 1945; Mroczkowski 1968; Háva 2007, 2009, 2014, 2015). This article presents new country records for five species of Dermestidae, based on recently collected specimens.

Materials and Methods

All revised material is deposited at the Universidad del Valle de Guatemala Collection of Arthropods (UVGC). The specimens were photographed with a Motic SMZ-161 stereomicroscope. Species are listed by subfamily in alphabetical order; the nomenclature and zoogeography follow the catalogue of Háva (2015).

Results

Subfamily Attageninae

Attagenus fasciatus (Thunberg, 1795)

(Fig. 2)

Material examined. Guatemala, Petén, San Benito, 16.920387 –89.902741, 13.v.2017, José García, 1 spec., J. García det.; Guatemala, Zacapa, 14.966235 –89.522737, 10.vii.2019, Otto Marroquín lgt., 1 spec., J. Háva det.

Distribution. Cosmopolitan species; new for Guatemala.

Subfamily Dermestinae

Dermestes (Dermestinus) caninus caninus Germar, 1824

(Fig. 3)

Material examined. Guatemala, Petén, San Andrés, Cruce Dos Aguadas, 180 m., 5.v.2015, José Monzón, 1 spec., skin beetle found eating dead toad on the road, J. Háva det.

Distribution. Species known from Canada, Mexico, USA (both the continental USA and Hawaii), Dominican Republic, Cuba and Jamaica; new for Guatemala.

Subfamily Megatominae

Orphinus fulvipes (Guérin-Méneville, 1838)

(Fig. 4)

Material examined. Guatemala, Izabal, Los Amates, 15.246751 –89.115326, 28.vi.2019, Angel Mayorga lgt., 1 ♂, J. Háva det.

Distribution. Cosmopolitan species; new for Guatemala.

Trogoderma simplex Jayne, 1882

(Fig. 5)

Material examined. Guatemala, Izabal, Los Amates, 15.281150 –89.070023, 28.vi.2019, Angel Mayorga lgt., 1 ♂, J. Háva det.

Distribution. Species known from Russia, South Korea, Canada, Mexico, and the USA; new for Guatemala.

Subfamily Thorictinae

Thorictodes heydeni Reitter, 1875

(Fig. 6)

Material examined. Guatemala, Zacapa, Zacapa, 14.982769 –89.534163, 10.vii.2019, Otto Marroquín, 2 spec., J. Háva det.

Distribution. Cosmopolitan species; new for Guatemala.

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Literature Cited

- Blackwelder, R. R. 1945.** Part 3. p. iii–iv + 343–550. *In*: Checklist of the coleopterous insects of Mexico, Central America, the West Indies and South America. Bulletin, United States National Museum 185: i–xii + 1–1492.
- Háva, J. 2007.** Contribution to the species of *Cryptorhopalum* (Coleoptera: Dermestidae) described by David Sharp from the Neotropical region, Part 1. Entomological Problems 37: 83–86.

- Háva, J. 2009. *Caccoleptus (Bicaccoleptus) kacka* n. sp. a new species from Guatemala (Coleoptera: Dermestidae: Megatominae). *Mitteilungen des Internationalen Entomologischen Vereins* 34: 89–92.
- Háva, J. 2014. A new *Cryptorhopalum* species from Guatemala (Coleoptera: Dermestidae: Megatomini). *Studies and Reports, Taxonomical Series* 10(1): 85–88.
- Háva, J. 2015. *World Catalogue of Insects. Volume 13. Dermestidae (Coleoptera)*. Brill; Leiden/Boston. xxvi + 419 p.
- Háva, J. 2019. *Dermestidae World (Coleoptera)*. World Wide Web Electronic Publication (open in 2004). Available at <http://www.dermestidae.wz.cz> (Last accessed May 2019.)
- Mrockzowski, M. 1968. Distribution of the Dermestidae (Coleoptera) of the world with a catalogue of all known species. *Annales Zoologici* 26: 15–191.
- Sharp, D. S. 1902. Dermestidae. p. 642–669. *In*: F. Godman and O. Salvin (eds.). *Biologia Centrali-Americana. Insecta. Coleoptera. Vol. II. Part. 1*. Dulau and Co.; London. xii + 717 + 1 p., 19 tab.

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Figure 1. *Trogoderma serraticorne* (Fabricius, 1792).



Figure 2. *Attagenus fasciatus* (Thunberg, 1795).



Figure 3. *Dermestes (Dermestinus) caninus caninus* Germar, 1824.



Figure 4. *Orphinus fulvipes* (Guérin-Méneville, 1838).



Figure 5. *Trogoderma simplex* Jayne, 1882.



Figure 6. *Thorictodes heydeni* Reitter, 1875.

